

APU Treatment Solution solves Ohio Community's Iron and Manganese Problems

PROJECT

AdEdge Water Technologies was contacted by Aqua Ohio to design, manufacture, and start up an iron and manganese removal system for the Worthington Hills community in Ohio. Worthington Hills had an iron concentration that fluctuated between 1.8 mg/L and 2.0 mg/L and a manganese concentration of 0.30 mg/L, well above the EPA secondary MCLs of 0.3 mg/L Fe and 0.05 mg/L Mn.

The AdEdge treatment system consists of two triplex systems that contain a total of six vessels and is rated for a maximum capacity of 625 gallons per minute. Iron and manganese are oxidized and filtered/adsorbed with the proprietary AD26 catalytic media based system. Prior to the treatment system, the raw water is injected with sodium hypochlorite for optimal removal of the iron and manganese. Backwashing of the treatment vessels occurs approximately every two to three days depending on the incoming levels of iron and manganese and gallons processed. Each of the skid mounted systems are equipped with automatic controls, backwashing features, switches and sample ports for complete functioning packaged units. Instrumentation is provided on a control panel to measure critical operating parameters.

The treatment system was installed and began operation in August 2013. Since the treatment system began operation, iron and manganese levels have lowered from 1.8 mg/L and 0.30 mg/L to below the EPA MCLs of 0.3 mg/L Fe and 0.05 mg/L Mn.

STATS

Customer: Aqua Ohio

Location: Worthington Hills

Challenge: Reduce high iron and manganese

Flow Rate: 625 gpm

Products:

- AD26 oxidation/filtration media
- H2Zero backwash reclamation system

Results: Since startup in August 2013, iron and manganese levels in the wells have been lowered to below the MCLs of 0.3 mg/L Fe and 0.05 mg/L Mn.

For more information on these solutions, visit adedgetech.com.



AdEdge Water Technologies, LLC provided two triplex systems for the Aqua OH - Worthington Hills community.

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